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No Days 2, 5 or 6

## FOR INTERNAL ROUTING ONLY

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\* GPO : 1966 O-797-276

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

# APOLLO 8 ONBOARD VOICE TRANSCRIPTION

AS RECORDED ON THE SPACECRAFT  
ONBOARD RECORDER  
(DATA STORAGE EQUIPMENT)

January 1969

GROUP 4

DOWNGRADED AT 3 YEAR INTERVALS  
DECLASSIFIED AFTER 12 YEARS

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Classification  
To: Unclassified  
By authority of NSC letter - 2/7/73  
Changed by E. H. Smith Vale 2/14/73  
per H. B. Mann

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#### INTRODUCTION

This is the transcription of the Apollo 8 flightcrew communications as recorded onboard the spacecraft data storage equipment (DSE), and subsequently transmitted (dumped) to Manned Space Flight Network stations. Magnetic tapes containing dumped voice and onboard recorded ground elapsed time (GET) were forwarded to the NASA Manned Spacecraft Center, Houston, Texas. Transcription of these tapes was managed by David M. Gollerbaum, Test Division, Apollo Spacecraft Program Office, to whom questions regarding this document should be referred.

The Apollo 8 mission was flown December 21 to 27, 1968.

Communicators in the text are identified as follows:

##### Command module:

CDR	Commander	Frank Borman
CMP	Command module pilot	James A. Lovell, Jr.
LMP	Lunar module pilot	William A. Anders
SC	Unidentifiable crewmember	

##### Mission Control Center:

CC	Capsule communicator (CAP COMM)
----	---------------------------------

##### Remote sites:

CT	Communications technician (COMM TECH)
AB1	Airboss 1 (Recovery aircraft)
R1, R2, R3	Recovery 1, 2, 3 (Recovery helicopters)
YORK	USS Yorktown

In the text, a series of three dots (...) is used to designate those portions of the communications which could not be transcribed because of garbling. One dash (-) is used to indicate a speaker's pause or a self-interruption. Two dashes (- -) are used to indicate an interruption by another speaker or a point at which a recording was abruptly terminated.

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DAY 1

00 00 22 42 CDR Roger. Thank you, Houston; Apollo 8 ...

00 00 22 47 CDR Okay, going to close on A.

00 00 22 50 CMP Okay, just give it a real small flip.

00 00 22 54 LMP Is that why we've got that MASTER ALARM?

00 00 22 57 CDR Okay, I'm - -

00 00 22 59 CC Apollo 8, Houston. You have the tape recorder, LOW bit rate. Over.

00 00 23 02 CDR Thank you.

00 00 23 04 LMP Okay, we've got it.

00 00 23 05 CC You're welcome.

00 00 23 06 CMP Okay, EMERGENCY CABIN PRESSURE number 2 on the ... test.

00 00 23 10 LMP Hit it.

00 00 23 14 CDR It's ON here.

00 00 23 15 LMP Got it. That's good.

00 00 23 17 CDR You got it?

00 00 23 18 LMP That's good.

00 00 23 19 CDR Okay.

00 00 23 20 LMP Okay, this is a tape recorder test: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10; 9, 8, 7, 6, 5, 4, 3, 2, 1. And for the record, when we put the radiator to FLOW, the GLYCOL DISCHARGE PRESSURE dropped. Boy, it's way down there now, something's fishy.

00 00 23 40 CDR What's wrong?

00 00 23 44 LMP Apparently, we're getting the GLYCOL DISCHARGE PRESSURE way down.

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Day 1

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00 00 23 51 CDR Oh? What was wrong?

00 00 23 52 LMP Wait awhile; it's the glycol pump.

00 00 23 53 CDR Huh?

00 00 23 58 CDR You lost the glycol pump?

00 00 24 00 LMP Guess so.

00 00 24 02 CMP Well, take a look; are we in PRIMARY?

00 00 24 08 LMP Discharge pressure?

00 00 24 10 CDR Not yet.

00 00 24 11 CMP Huh?

00 00 24 12 LMP You were - Oh, we're in SECONDARY. That's okay.

00 00 24 14 CDR It looks to me like it's picked up here.

00 00 24 16 LMP Okay.

00 00 24 17 LMP Yes.

00 00 24 19 CMP Okay, what else do you want here?

00 00 24 20 LMP It's okay.

00 00 24 24 LMP Okay, - -

00 00 24 26 CMP Secondary radiator leak check?

00 00 24 27 LMP I'm ready this time (laughter). It's secondary ... -  
I'm not going over, there.

00 00 24 38 CMP Okay, - -

00 00 24 39 LMP Okay, Jim.

00 00 24 40 CMP - - the pressure's okay?

00 00 24 42 CMP What do you want to do? The secondary glycol radiator?

00 00 24 44 LMP The second - let her flow.

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Day 1

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00 00 24 45 CMP Well, wait a second; I'm not under the couch yet.

00 00 24 48 LMP Okay, why don't you get underneath there, Jim, and give Frank a hand when you have a chance?

00 00 24 52 CMP Well, how about let's take off our gloves and helmets, huh?

00 00 24 54 LMP Okay.

00 00 24 55 CDR Yes.

00 00 24 56 CMP I mean, let's get comfortable. This is going to be a long trip.

00 00 24 59 CDR You got - have you got the bags?

00 00 25 01 CMP I'll get them.

00 00 25 02 LMP I'll get them right now.

00 00 25 19 LMP Okay, you want to get - CABIN AIR RETURN valve, ON.

00 00 25 23 CDR Stand by; wait until I get my glove off.

00 00 25 32 CDR CABIN AIR RETURN valve is OPEN.

00 00 25 38 CDR Okay?

00 00 25 40 LMP Okay.

00 00 25 41 CMP Gentlemen.

00 00 25 44 CDR Thank you.

00 00 25 45 LMP Storage.

00 00 25 50 CMP That's the gloves.

00 00 25 57 CDR How's the cabin pressure, Bill?

00 00 25 59 LMP Cabin pressure is holding good, Frank.

00 00 26 00 CDR Okay.

00 00 27 15 LMP You want the other bag there, Jim?

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Day 1

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00 00 27 19 CMP Let me see, I'm missing one bag here.

00 00 27 31 CMP Wait 1.

00 00 27 48 CDR Here you are.

00 00 27 52 CDR Okay, you say you've got the EACPS power verifications in, Bill?

00 00 27 56 LMP Yes, sir.

00 00 27 57 CDR ECS monitor check?

00 00 27 59 LMP Yes.

00 00 28 00 CMP There is only - Oh, here it is.

00 00 28 07 LMP Hey, it's like sitting on an ice rink, isn't it?

00 00 28 08 CDR Yes. SPS, Bill.

00 00 28 11 LMP SPS is roughly the same as it was. Got that one?

00 00 28 13 CDR ... TLI.

00 00 28 18 CDR Okay.

00 00 28 32 CMP Okay, we can breathe a little bit, hear a little bit more, huh?

00 00 28 34 CDR Yes, that was quite a ride, wasn't it?

00 00 28 36 CMP Yes.

00 00 28 37 LMP Man, that felt like that I-C was like an old freight train.

00 00 28 43 CMP It is an old freight train, pal. It really goes.

00 00 29 31 CDR What's that noise?

00 00 29 32 CMP That's me; I'm into the fan area.

00 00 29 42 CDR Why don't we turn those fans off? We don't need them, do we?

00 00 29 52 CMP Okay, let's continue on with the checklist.

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Day 1

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00 00 29 59 CMP Okay, secondary radiator leak check, huh?

00 00 30 02 LMP Confirmed.

00 00 30 04 CMP Let me get out my fuel.

00 00 30 09 LMP Okay, we are in POWER, manual 1; primary water, AUTO - okay.

00 00 30 26 CMP Is she holding us in the proper attitude?

00 00 30 28 CDR Yes. I don't have the ORDEAL out yet; I can't tell, but it looks real good.

00 00 30 33 CMP Okay, notify LMP when ready to commence.

00 00 30 35 LMP I'm ready.

00 00 30 36 CMP Secondary glycol to radiator valve, NORMAL.

00 00 30 40 LMP Okay, just give me a buzz when you're - Yes, you're good.

00 00 30 43 CDR You got your 278 circuit breaker 1 and 2, OPEN, Bill?

00 00 30 44 LMP No, I'll go get it.

00 00 30 45 CDR Good show.

00 00 30 48 LMP ... system coming up.

00 00 30 49 CDR Huh?

00 00 30 50 LMP They're OFF.

00 00 30 52 CDR Okay.

00 00 30 55 LMP You're doing the radiator leak now, huh?

00 00 30 57 CMP Okay - -

00 00 30 59 LMP Have you got the radiator's talkback gray? Are you ready, Jim?

00 00 31 01 CMP All set whenever you are.

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Day 1

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00 00 31 03 LMP Okay, hit it. Everything is normal. Don't drop, you mother. Looking good. Hold it for a little while longer.

00 00 31 24 LMP Okay, let's go, Jim.

00 00 31 25 CMP Going to BYPASS.

00 00 31 26 LMP Go back to BYPASS. Good show.

00 00 31 29 CMP Okay. Frank?

00 00 31 30 CDR Yes.

00 00 31 31 CMP You want the ORDEAL?

00 00 31 32 CDR Yes.

00 00 31 36 LMP Okay, troops, I'm switching the other compressors.

00 00 31 39 CMP Here you go.

00 00 31 40 LMP I'm starting. Want component check.

00 00 31 45 CDR Thank you, Bill.

00 00 31 46 CMP Bill, let me take out the wire; it's easier on it.

00 00 31 47 LMP Alright.

00 00 31 49 CMP Okay.

00 00 31 53 CMP Now, do you want the - What else do you want?

00 00 31 57 CDR Well, you've got to get the camera bracket out for Bill.

00 00 31 59 CDR Can we - let's see, can we - What are you doing, Bill?

00 00 32 04 LMP I just quit checking the compressor. I'm doing the redundant components check.

00 00 32 16 LMP Okay, secondary glycol pump is ON.

00 00 32 20 CDR Can you get that ORDEAL wire in that thing down there, Jim?

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Day 1

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00 00 32 23 CMP Yes.

00 00 32 26 LMP Okay, secondary coolant loop's going to EVAP.

00 00 32 32 CMP How's that?

00 00 32 37 LMP Oh, you sweet little mother.

00 00 32 39 CMP Is that okay?

00 00 32 40 CDR Yes.

00 00 32 42 CMP Okay.

00 00 32 50 LMP Secondary EVAP has stabilized.

00 00 33 00 CMP Camera bracket.

00 00 33 03 LMP Thank you. That's Frank's.

00 00 32 08 CDR Huh?

00 00 33 10 LMP That's the long one.

00 00 33 11 CDR What are you doing?

00 00 33 13 CMP Drinking water.

00 00 33 14 LMP I'm not sure, but it sure looks like the long one.

00 00 33 17 CDR Just make sure we get the right one.

00 00 33 18 LMP Well, we'll get the other one.

00 00 33 22 CDR Jim, where's the other camera bracket?

00 00 33 24 CMP Well, there's - I only saw the one in there; I may be wrong ...

00 00 33 28 LMP Yes, this is yours, Frank. You want to stick it up here?

00 00 33 30 CDR I don't want mine up here all the time.

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Day 1

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00 00 33 33 CMP The water's OFF.

00 00 33 35 CDR Okay.

00 00 33 36 CMP You might try the drinking water before we leave on TLI, too, by the way.

00 00 33 39 LMP We can get it out over Hawaii.

00 00 33 40 CDR Hey, I don't want this thing up here; it's going to just be in my way. You sure this isn't yours?

00 00 33 46 LMP I'll stick it up until we get another one.

00 00 33 48 CMP Should I wait for another one?

00 00 33 50 CDR Yes.

00 00 33 52 CMP Well, is there another camera bracket? How many camera brackets in that - that -?

00 00 33 55 CDR I thought there were two in there.

00 00 33 57 LMP I did, too.

00 00 34 00 CDR That's the best we're going to get.

00 00 34 02 LMP Okay, I'm going to secure the secondary evaporator.

00 00 34 05 CDR Jim, are you - You're not using the computer now, are you?

00 00 34 08 CMP It can go.

00 00 34 09 CDR Can I use a VERB 83?

00 00 34 10 CMP Yes. Yes.

00 00 34 29 CMP Okay.

00 00 34 37 CMP Okay, I want to jettison the covers.

00 00 34 49 CMP Now, I'll unstow the cameras.

00 00 34 51 LMP I keep looking around here; I won't see it again. We've got a Madaga - What's this coming up? Madagascar or what?

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Day 1

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00 00 34 59 CDR Yes.

00 00 35 03 CDR Okay.

00 00 35 06 CMP Buzz has my eye patch.

00 00 35 13 LMP Okay, EVAP's going OFF.

00 00 35 14 CMP (Singing)

00 00 35 18 LMP SECONDARY PUMP, going OFF.

00 00 35 19 CMP (Singing)

00 00 35 24 LMP ECS indicator's PRIMARY.

00 00 35 25 CDR You got the redundant components checked, Bill?

00 00 35 27 LMP Checked, and we passed.

00 00 35 31 CDR You got the fuel cells purge check?

00 00 35 33 LMP Huh?

00 00 35 34 CDR Does the fuel cell purge - -

00 00 35 35 LMP I haven't got that yet.

00 00 35 39 CDR We should be getting - getting over Tananarive.

00 00 35 54 LMP You want to check me off here?

00 00 35 55 CDR Yes, I'd - I'd like to.

00 00 35 57 LMP Okay, I've done EPS periodic verification.

00 00 36 01 CDR Good enough. Alright.

00 00 36 04 LMP ECS monitoring.

00 00 36 06 CDR Alright.

00 00 36 08 LMP SPS monitoring.

00 00 36 12 CDR Okay.

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Day 1

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00 00 36 13 LMP ECS redundant components. I'm ready to go on fuel cell purge.

00 00 36 17 CMP (Singing)

00 00 36 18 LMP Purge line heater has been ON. Stand by for a MASTER ALARM. Purging fuel cell 1, H<sub>2</sub>.

00 00 36 30 LMP That it?

00 00 36 31 CDR Yes.

00 00 36 32 LMP O<sub>2</sub>.

00 00 36 37 LMP Okay.

00 00 36 39 CDR I didn't get a high ... too well - -

00 00 36 41 LMP Probably won't ... H<sub>2</sub>, stand by.

00 00 36 45 CDR Yes.

00 00 36 46 LMP Okay. Okay.

00 00 36 51 CMP How's VERB 83 looking?

00 00 36 53 LMP That it?

00 00 36 54 CDR Perfect.

00 00 36 55 LMP Fuel cell 3 - -

00 00 36 56 CMP Ooooh! (Yawn)

00 00 36 57 LMP - - Stand by.

00 00 37 00 LMP Okay. Okay.

00 00 37 06 CMP Drinking water supply is ON.

00 00 37 08 CC Apollo 8, Houston. Over.

00 00 37 09 CMP I'll unstow the covered cameras here, but first let me get the dust covers jettisoned. Okay?

00 00 37 13 CDR Okay.

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00 00 37 14 LMP Purge - purge check is complete, fuel cell line heaters are OFF.

00 00 37 18 CDR Houston, Apollo 8. How do you read?

00 00 37 22 CC Apollo 8, Houston. Reading you weak, but clear. How me?

00 00 37 25 CDR You're loud and clear, Mike. Everything seems to be going very well. *Collier*

00 00 37 31 CC Okay, everything looks real good here on the ground with both vehicles. We still have you 103 by 99 on your orbit from our low-speed data, and everything's looking very good. Over.

00 00 37 41 CDR Roger. Thank you.

00 00 37 42 CMP G&N OPTICS POWER, going ON.

00 00 37 45 CDR Well, do you want me to get out of VERB 83?

00 00 37 47 CMP No, you are okay.

00 00 37 49 CDR When are you going to unstow the camera? -

00 00 37 51 CMP As soon as I get this thing done.

00 00 37 53 CMP Okay, OPTICS COUPLING, DIRECT - DIRECT - The speed is HIGH. Okay, here we go, gentlemen.

00 00 38 02 CMP I'm not going to look into them for a while.

00 00 38 12 CDR Okay, 1 minute.

00 00 38 18 CMP ... I still think it's still kind of chilly in here.

00 00 38 24 LMP They OFF, Jim?

00 00 38 29 CMP Yes, I guess so. Oh, I see a whole bunch of stuff - Oh, here we go.

00 00 38 33 LMP They both OFF?

00 00 38 36 CMP Yes, I - I guess I was just looking at the -

00 00 38 40 LMP It's blacker than pitch out there, remember.

00 00 38 43 CMP Boy, everytime I - Why? Is it dark out?

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Day 1

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00 00 38 47 LMP Yes, you're looking up into pretty much blackness.

00 00 38 49 CMP Everytime I move the thing, I got a whole bunch of -  
of sparks, or you know, not sparks, but - -

00 00 38 54 LMP Did they go?

00 00 38 56 CMP I guess, I can't see - -

00 00 38 57 LMP If you can see the glitter, you got - you've got it.

00 00 39 03 LMP Turn the lights down?

00 00 39 04 CDR Where's the other camera bracket, I wonder?

00 00 39 09 LMP I don't know; I've always expected that other one to  
come out of there.

00 00 39 13 CDR Listen, don't we have a stowage list in the back of  
the checklist?

00 00 39 17 LMP That's what I am looking for, but I can't find it.

00 00 39 23 CMP Okay, can I go into a 1691?

00 00 39 27 CDR Yes. Go back to P00 first, Jim.

00 00 39 29 CMP Yes. Yes, I'll just skip that. Proceed.

00 00 39 53 LMP Do you have Tananarive?

00 00 39 56 CDR Yes, we had them when we took the film.

00 00 40 00 LMP Did Jim doublecheck to make sure that wasn't in there?

00 00 40 03 CDR What's that?

00 00 40 04 LMP That other camera bracket.

00 00 40 05 CMP No, I haven't doublechecked yet.

00 00 40 07 CMP I don't see anything - -

00 00 40 09 LMP - - We can handle that.

00 00 40 11 CDR What did you say, Jim?

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Day 1

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00 00 40 12 CMP I don't see anything in the sextant.

00 00 40 15 CDR You don't?

00 00 40 16 CMP No.

00 00 40 22 CMP Now this thing's all the way.

00 00 40 27 CMP I heard something then.

00 00 40 30 LMP I'm flipping switches, and -

00 00 40 40 CMP I thought I'd see something in the sextant.

00 00 40 50 CDR Can you see out of the telescope?

00 00 40 57 CMP Yes, yes, yes, I sure do.

00 00 41 03 LMP Why don't you see if we can get the camera stuff unstowed before you go into darkness?

00 00 41 08 CMP Okay.

00 00 41 12 LMP Those cameras and that other junk.

00 00 41 15 CMP I - I see something in here. I thought maybe I could maybe get it into the sextant to see better.

00 00 41 21 LMP You're going to be doing that alignment, that P52.

00 00 41 25 CMP Well, okay. I'm just doublechecking.

00 00 41 32 CMP I think I see something floating.

00 00 41 38 CC Apollo 8, Houston.

00 00 41 40 CDR Go ahead, Houston; Apollo 8.

00 00 41 42 CC We have 1 minute to LOS Tananarive. We'll see you again over Carnarvon at 52:09. Over.

00 00 41 51 CDR Roger. We do have the optics covers jettisoned. It appears everything seems to be going fine.

00 00 41 57 CC Roger; optics cover jettisoned. Thank you.

00 00 42 01 CMP Okay. B3 is what I have right here.

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Day 1

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00 00 42 29 CMP Okay. You want the 16-millimeter camera, right?

00 00 42 31 CDR Yes, here.

00 00 42 33 CMP Right now; I'll just give you all these little goodies right now.

00 00 42 38 LMP Okay, if Frank can hold it and hand it up to me -

00 00 42 42 CDR What do you want?

00 00 42 44 LMP The 16-millimeter camera and the 18-millimeter lens?

00 00 42 50 CDR Okay, this is the 16-millimeter camera. You got the right kind of film in there? C-EX, ASA 60 - -

00 00 42 54 CMP C-EX? That right?

00 00 42 55 LMP Jim, you can head underneath and get that spotmeter.

00 00 42 57 CMP Okay.

00 00 42 59 CDR 18-millimeter lens, and you need a mirror?

00 00 43 01 LMP Yes, I guess.

00 00 43 03 CDR Huh?

00 00 43 04 LMP Yes, but I don't - I'm not sure it's going to fit on this - on this bracket here. I don't think it will.

00 00 43 10 CMP Where have we got the spotmeter located here?

00 00 43 12 CDR Right in here. Can I help you with it?

00 00 43 15 LMP Way under there?

00 00 43 26 CDR And is this the 75-millimeter magazine camera you want here?

00 00 43 33 LMP That's all I can get now.

00 00 43 37 LMP Do you see it in there, Jim?

00 00 43 39 CMP No, I'll look for it. I - I might see it if I kind of look for it.

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Day 1

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00 00 43 43 LMP Can you hang on to that one for a second, Frank?  
Okay, we've got the -

00 00 43 50 CMP Yes, here it comes up here.

00 00 43 52 LMP Alright.

00 00 43 53 LMP Which way?

00 00 43 54 CMP This way; to your right. Anything else down here?

00 00 44 00 CDR Nope.

00 00 44 01 LMP We need that other camera bracket. Let's put this one back.

00 00 44 03 CDR We sure do.

00 00 44 06 CMP How about going into your - into the stowage list and find out where it is. I haven't - -

00 00 44 09 LMP I can't seem to find the stowage list, either.

00 00 44 12 CDR Maybe that's in your section.

00 00 44 14 CMP It's in the flight plan.

00 00 44 16 LMP No, this one won't work. We're going to have to use the other one.

00 00 44 18 CDR What one won't work?

00 00 44 19 LMP This camera bracket.

00 00 44 20 CDR Oh.

00 00 44 24 CDR Maybe you want to put the - This is all you need right here now, isn't it, Bill? You want to put that back? Here, I'll hold your checklist.

00 00 44 33 CDR I thought we had one of those stowage lists in the back of your checklist.

00 00 44 35 LMP Okay, I need camera number 2 with a 80-millimeter lens and some C film in it.

00 00 44 40 CMP You've got it, haven't you?

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00 00 44 42 CDR Camera 2, magazine A, C film; right here.

00 00 44 52 CMP (Singing)

00 00 44 56 LMP Coming up on darkness.

00 00 44 57 CMP (Singing)

00 00 44 59 CDR Yes, Jim, you'd better start getting ready for the first eclipse.

00 00 45 02 CMP Okay.

00 00 45 13 LMP You couldn't check that camera bracket real quick, Jim?

00 00 45 16 CMP I'll look in here.

00 00 45 18 LMP Okay.

00 00 45 22 CDR 70-millimeter camera; you got all that. You got the spotmeter too, please, Bill?

00 00 45 25 LMP I do. I've got everything I need except that bracket. ... This is a good enough place to keep it.

00 00 45 40 CMP (Singing)

00 00 45 43 CDR Do you need your checklist, Jim? Here I'll give it back.

00 00 45 45 CMP Well, I'll be darned. ...

00 00 45 50 CDR Wait a minute.

00 00 45 52 CMP Thank you.

00 00 45 53 CDR Well, it doesn't make it that far for TLI.

00 00 46 12 CDR Okay, we're right up there.

00 00 46 14 CMP How are we doing?

00 00 46 16 CDR We're doing fine. We should be getting there. All we need is that other camera bracket.

00 00 46 26 CMP I'm warm now. How about you?

00 00 46 27 CDR I'm hot.

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Day 1

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00 00 46 28 LMP Man, I'm cold still.

00 00 46 50 LMP Boy, is this ...! Hey, don't let me forget about this camera, when we light off here. It's spread all over the place.

00 00 46 56 CMP Hey, that's right.

00 00 47 18 CMP I hope I can see something out of here soon.

00 00 47 20 CDR How's the cabin pressure?

00 00 47 22 LMP It has kind of eased down a little bit.

00 00 47 27 CDR What are you doing, Jim?

00 00 47 29 CMP I'm okay. I'm just getting this all put together here.

00 00 47 33 CDR Do you want me to read off anything to you - from the checklist? Form a checklist, maybe?

00 00 47 38 CMP I've got the P52 realign. You might kind of doublecheck me on it; maybe - I'm here and I'm going to turn down the floodlights and get - get my eye adapted here, because I don't see schmatz out there right now.

00 00 47 55 CDR Hope it hasn't clouded up ...

00 00 47 58 CMP Frank, I sure hope you're right.

00 00 48 06 CDR Alright, CM - do not key VERB 82. Do you want to go - start right from scratch with P00?

00 00 48 13 CMP Yes, okay. I'm going to bring this optics toward zero.

00 00 48 18 CDR CMC, ON; ISS is ON; PSS is - SCS is operating; BMAG's, three, are RATE 2 - G&N POWER OPTICS, ON? Jim?

00 00 48 29 CMP G&N POWER OPTICS are ON.

00 00 48 31 CDR CMC is FREE; OPTICS MODE, ZERO.

00 00 48 36 CMP Okay, stand by. I am going to go - I'm driving it to zero ...

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Day 1

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00 00 48 48 CMP Uh - oh, the trunnion won't go any farther than -  
45, and -

00 00 48 58 CDR Need the lights down a little bit, Jim?

00 00 49 03 CDR Now, it's just SCS. Okay, I can see. Okay, I'm  
going to go to zero. I don't think - It must be  
going to zero.

00 00 49 35 CMP Okay, that looks good. ... Okay, I think I see some-  
thing out there now.

00 00 49 44 CDR You got the OPTIC MODE to zero?

00 00 49 46 CMP Yes.

00 00 49 47 CDR OPTIC MODE, CMC.

00 00 49 48 CMP OPTIC MODE, CMC.

00 00 49 51 CDR What are you doing now?

00 00 49 52 CMP Okay, I'll go - I'll go to P00 right now.

00 00 49 58 CMP That's what you get with the burn.

00 00 50 00 CDR Okay.

00 00 50 01 CMP And by the way, we used VERB 66 at the end of our burn.

00 00 50 07 CDR We did?

00 00 50 08 CMP That's affirmative.

00 00 50 12 CDR Hey, are you going to 52, now?

00 00 50 14 CMP Well, are we dark or light out there?

00 00 50 17 CDR Well, you ought to be able to get it even in light.  
It's getting dark now.

00 00 50 20 CMP Okay. Well, I want to make sure we got a good one.

00 00 50 22 CMP Okay, VERB 37, ENTER; 52, ENTER. You want a  
REFSMAT option?

00 00 50 32 CMP VERB 22, ENTER; 3, ENTER - -

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00 00 50 38 LMP There's a couple of nice stars out here.

00 00 50 40 CMP - - ENTER. Okay. All set, gentlemen?

00 00 50 44 CDR Yes.

00 00 50 46 LMP Hey, there's a bunch of stuff flying off this thing.

00 00 50 47 CMP I know; that's what I was afraid of.

00 00 50 50 LMP Real bright - I wonder why they're so bright?

00 00 50 52 CDR The sun's shining.

00 00 50 54 LMP Are we - We're boiling?

00 00 50 55 CDR Is the sun shining, really?

00 00 50 56 CDR Yes, look here, I got sun in it.

00 00 50 58 LMP Oh Christ (laughter), I thought it was nighttime over here!

00 00 51 01 LMP I can see a lot of stars over on this side.

00 00 51 06 CDR What are you doing, Jim?

00 00 51 07 CMP Well, I'm getting the optics adjusted here.

00 00 51 09 CDR Yes, they make you - -

00 00 51 10 CMP Okay, 06; 06 is what? 06 is Acamar. Worst star in the world for me to look at! Oh, I'm getting more stars now.

00 00 51 22 CMP Okay, here we go, gentlemen.

00 00 51 24 LMP You got a real bright star - -

00 00 51 26 CMP Zero off, right?

00 00 51 27 CDR Yes.

00 00 51 28 LMP Real bright star - star like - -

00 00 51 30 CMP Zero off.

00 00 51 31 CDR CMC; optic mode should be CMC.

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Day 1

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00 00 51 34 CMP CMC? Oh, to C, huh?

00 00 51 49 CMP Holy cow!

00 00 51 50 CDR Any luck?

00 00 51 57 CMP Well, it stopped by a star. The star's out, but I don't know what it is, though.

00 00 52 01 CDR Can you see it through the telescope?

00 00 52 03 CMP Yes. It seems to look like - Okay, I'm going to go to RESOLVE - LOW, and MANUAL.

00 00 52 31 CMP CMC; proceed; Spica's the one I want; proceed; okay; 15, that's Sirius.

00 00 52 41 CDR We there yet?

00 00 52 43 CMP Yes, proceeding.

00 00 52 45 CC Apollo 8, Houston.

00 00 52 48 CDR Go ahead, Houston; Apollo 8. You're loud and clear.

00 00 52 51 CC Roger; you're loud and clear over Carnarvon. We'd like to take the DSE away from you for a second.

00 00 52 55 LMP Go.

00 00 52 56 CDR Roger; go ahead.

00 00 53 00 CC Thank you.

00 01 04 32 LMP Roger; 01:28:13. Thank you.

00 01 04 36 CMP (Singing)

00 01 04 37 CC We are giving the DSE back to you, Apollo 8.

00 01 04 40 LMP Roger, thank you.

00 01 05 00 CMP Okay, what I can do is put this camera bracket - How about putting it in your temporary stowage bag, Bill?

00 01 05 09 LMP Whatever you want. Has anybody seen the - Oh, there it is.

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Day 1

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00 01 05 18 CMP Okay, who's got - You got my TLI checklist, don't you, Bill? Or Frank? Oh, I got it. Now, everyone a flight plan out?

00 01 05 33 CDR Okay, ...

00 01 05 37 CMP Or do you want to wait until after TLI?

00 01 05 40 LMP Okay, S-band volume, down. I'm doing - I'm doing the - the - this check.

00 01 06 10 CMP That booster was quite a ride. I'm still impressed.

00 01 06 18 CMP I was a little worried at that pogo there on the second stage - something we didn't expect.

00 01 06 53 CMP (Singing)

00 01 07 00 CMP Anyone want me down here for anything else?

00 01 07 10 CMP Well, I'm going to get prepared to get back in.

00 01 07 20 CDR You going to get that data up?

00 01 07 22 CMP You want the data now, or do you want to do the TLI checklist?

00 01 07 25 CDR Data box.

00 01 07 27 CMP You want the data box now, or do you want to wait to TLI?

00 01 07 34 CDR ... be happy. He didn't have the systems book manual.

00 01 07 39 CDR We ought to get those cards, too, Jim.

00 01 07 45 CMP Well, I hate to keep all these hoses around here, ... after TLI.

00 01 08 43 CDR Okay. A 5-degree difference between -

00 01 09 25 CDR ...

00 01 09 28 LMP You mean you need it again?

00 01 09 30 CDR Not unless you want to.

00 01 09 55 CMP Now, let me see. I don't know whether we need these lights on or not.

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Day 1

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00 01 09 59 LMP Let me have 4-B in the SYSTEMS TEST, will you, Jim?

00 01 10 03 CMP 4-B?

00 01 10 04 LMP Yes, roughly.

00 01 10 05 CMP Okay.

00 01 10 08 LMP You can go ahead and turn it OFF.

00 01 10 26 CDR You want to hand me that metal box, Jim, as soon as you finish?

00 01 10 33 LMP It will be a lot more convenient when we can all get undone.

00 01 10 37 CMP Yes, you want it?

00 01 10 38 CDR Not really, but ...

00 01 10 46 CMP Gentlemen.

00 01 10 47 CDR ... BIOMED around me. They've been looking at me all the time.

00 01 10 53 CMP Would you believe that I think I see little gullies here?

00 01 10 56 LMP Huh?

00 01 10 59 CDR Where do we go, to the CENTER or what? Must be somebody else.

00 01 11 01 LMP Maybe they didn't want the - Where's the ...?

00 01 11 04 CMP They had me for the whole preflight.

00 01 11 11 LMP You're not going to be able to write on that dump list, are you?

00 01 11 14 CMP Well, we'll see.

00 01 11 15 CDR Hey, you got that metal box?

00 01 11 17 CMP Coming.

00 01 11 18 CDR You got a ... down there.

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00 01 11 24 CMP Well, that's a problem. I can't help that.

00 01 11 44 CDR Don't look at me on that.

00 01 11 48 LMP You beginning to see a little horizon against the moon there?

00 01 11 52 CMP ...

00 01 11 54 LMP Yes, you can see that. It would be good if we had that for retro, wouldn't it? Entry, I mean. The thing is, we ...

00 01 12 06 LMP You want to make any comments about the boost part, if you get time to do it?

00 01 12 12 CDR Okay.

00 01 12 14 LMP Make them good and loud and clear; make sure everything's - -

00 01 12 15 CDR Are we on there now?

00 01 12 16 LMP Yes.

00 01 12 17 CDR Alright, the boost - -

00 01 12 19 CMP Metal box.

00 01 12 20 CDR Stand by.

00 01 12 30 CDR I can't see where this thing goes in down there. You'll have to help me, Jim. You got a flashlight?

00 01 12 38 LMP Here you go.

00 01 12 40 CDR I can't get it, but I think it's supposed to fit the bottom one here. Okay.

00 01 12 44 CMP Down below?

00 01 12 45 CDR Yes. Down here. See? I - that thing fits in underneath here and I can't - -

00 01 12 54 CMP I'll put my feet over here.

00 01 12 57 CDR We'll get those little things to stick in those rings down there. You see what I mean?

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